

Amendment  
Serial No. 10/763,985

Docket 5000-1-507

**IN THE CLAIMS:**

*Kindly replace the claims of record with the following full set of claims:*

1-5 (Canceled)

6. (Currently amended) A transmission apparatus for use in an optical subscriber network, having a plurality of optical network units (ONU), the ONU comprising:

an synchronous transport module (STM) unit for receiving and converting a received optical signal into an electrical signal and outputting an HDLC packet;

a high-level data link control (HDLC) packet processing unit disposed inside the ONU, for receiving ~~optical~~ signals from the STM unit, the HDLC packet processing unit further including:

an multi-program transmission stream (MPTS) data receiver for receiving the ~~optical~~ signal from the STM unit;

an MPTS data extractor coupled to the MPTS receiver, for receiving the HDLC packet from the MPTS data receiver, removing overhead from the HDLC packet and extracting MPTS data;

a buffer coupled to the MPTS data extractor, for buffering the extracted MPTS data;

a controller for controlling the MPTS receiver, the MPTS data extractor and the buffer; and

a switching unit for switching the MPTS data from the HDLC packet processing unit to a plurality of subscribers, said switching unit comprising:

a first memory for storing the MPTS data; ~~and~~

~~a plurality of secondary memory units~~ having assigned storage areas[.].]

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defined by an address[[,]] ~~dependent upon the MPTS data~~ associated with a corresponding subscriber in the first memory said address being dependent upon the MPTS data; and

means for outputting the stored MPTS data to a corresponding one of the plurality of subscribers by said subscriber accessing said address in said secondary memory based upon predetermined requirements of each subscriber.

7. (Previously presented) The transmission apparatus as claimed in claim 6, wherein the buffer continuously outputs the MPTS data.

8. (Cancelled).

9. (Cancelled).

10. (Cancelled).

11. (Previously presented) The transmission apparatus as claimed in claim 6, wherein the HDLC protocol provides for a HDLC packet of a size of 64 Bytes to 1024 Bytes.

12. (Cancelled)

13. (Previously presented) The transmission apparatus as claimed in claim 6,

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wherein the transmission apparatus provides for a payload transmission rate of 6:512.

14. (Currently amended) The transmission apparatus as claimed in claim 6, wherein the plurality of secondary memory units is configured for outputting or discarding first-inputted MPTS data according to a first-in first-out (FIFO) method.